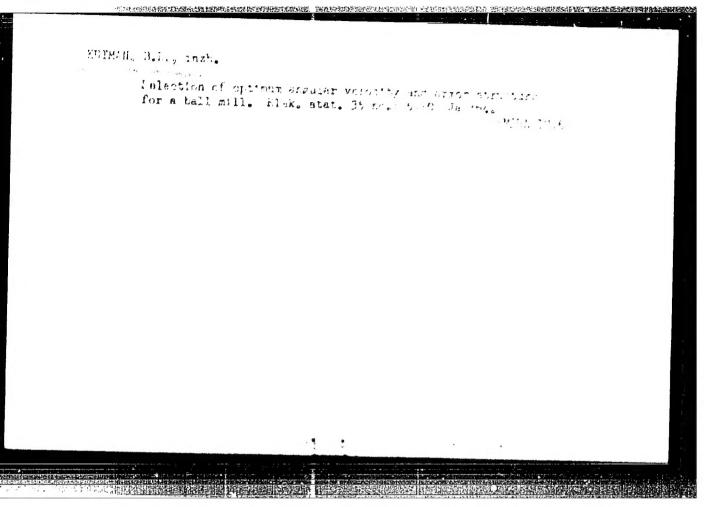
KUTMAN, B.L., inzh.

Improvement of the aerodynamics of the drum of a ball mill. Teploenergetika 10 no.11:18-22 N 163. (MIRA 17:1)

1. Upravleniye energeticheskoy promyshlennosti Soveta narodnogo khozyaystva Permskogo ekonomicheskogo administrativnogo rayona,



APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920005-7"

TO THE PROPERTY OF THE PROPERT

CZECHOSLOVAKLA/Electricity - General Problems.

Abs Jour : Ref Zhur Fizika, No 11, 1959, 25173

Author : Kutimi, D., Kaspar, J.

Lat

Inst : Measurement of Electric Field

Orig Pub : Slaboproudy obzor, 1959, 20, N. 2, 117-118

Abstract : Survey of methods used to measure electric field.

Card 1/1

AND A TOO STORY OF THE PROPERTY OF THE PROPERT

KUTMAN, O.; KASPAR, I.

"Electronic microcoulombmeter." P. 389.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

Comparative studies on the stability of conditioned electro-cutameous reflexes induced by means of a conditioned and a standard technics. Cesk. fysic!

1. Laborator grafickych vysetrovacich metod CSAV a Laborator fysiologis a patofysiologie zrakoveho amalysatoru CSAV, Prahn. Predneseno na seminari (REFIEX. CONDITIONED.)

1. Stability of conditioned electro-cutameous reflexes induced by means of conditioned & unconditioned methods (C2))

KUTHAR, F.

"The local annualist and designer, Frantisek Safranek."

p. 115. (Cesky Lid., Vol 43, No. 3, 1956, Prague, Czechoslovakia)

GEOGRAPHY & GEOLOGY

Monthly Index of East European Accessions (EEAI) LC, Vol 7, No. 12, Dec 58

THE PROPERTY OF THE PROPERTY O

Q

CZECHOSLOVAKIA/Farm Animals. Domestic Fowls.

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16860.

Author : Kutnar J.

Title : Fattening of Cockerels for Meat

(Otkorm molodykh petushkov na myaso)

Orig Pub: Zeměd. pokrók, 1957, 4, No 9, 138-139.

Abstract: The author enumerates the following factors which

in his opinion condition the profitableness of fattening: feeding on a thick bedding; age of cockerels at the time of their selection for fattening must be 6-8 weeks for light breeds and 100 weeks for meat-type breeds; complete rations guaranteeing maximum daily increase in weight;

Card : 1/2

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CZECHOSLOVAKIA/Farm Animals. Domestic Fowls.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16860.

reduction of the duration of fattening and hormonal caponizing.

Card : 2/2

40

Q

CZECHOSLOVAKIA/Farm Animals. Cattle.

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16763.

Author : Kutnar J.

Inst

Title

: Is it Possible to Increase Productiveness of Our

Cattle by Means of Crossbreeding? (mozhno li povysit' produktivnost' mashego skota putem skreshchivaniya?)

Orig Pub: Nas chov, 1957, No 7, 192-194.

Abstract: The crossing of the Red-spotted Czech cows with

Ayrshire bulls produced the following results: the live weight of the crossbred cows of the first generation, about 500 kg; the average milk yield during first lactation - 3000 - 3500 kg with 3.8 - 4.15 butterfat, the highest milk yield - 4400 kg with 4.15 butterfat; the exterior - closer

Card : 1/2

CZECHOSLOVAKIA/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16763.

to the Ayrshires. The importance of the improvement of the conditions of maintenance and feeding of animals is emphasized.

Card : 2/2

CZECHOSLOVAKIA / Farm Animals. Cattle.

Q

Abs Jour

: Ref Zhur - Biologiya, No 5, 1959, No. 21245

Author

: Kutnar, J.

Inst

: Not givon

Title

: Testing the Hereditability of the Bull's Useful

Properties on the Qualities of His Progeny

Orig Pub

: Nas chov, 1958, No 6, 157-158

Abstract

Two purebrod bulls were compared in terms of average evaluation of their progeny. The progeny of each bull was divided into classes according to appearance, the number of heads contained in each of the classes was multiplied by a specific coefficient, the obtained results were added and the total was divided by the number of heads serving as controls. A coefficient of 4.5 was established for the highest class, of 4 for

Card 1/2

53

CZECHOSLOVAKIA / Farm Animals. Cattle.

Q

Abs Jour : Rof Zhur - Biologiya, No 5, 1959, No. 21245

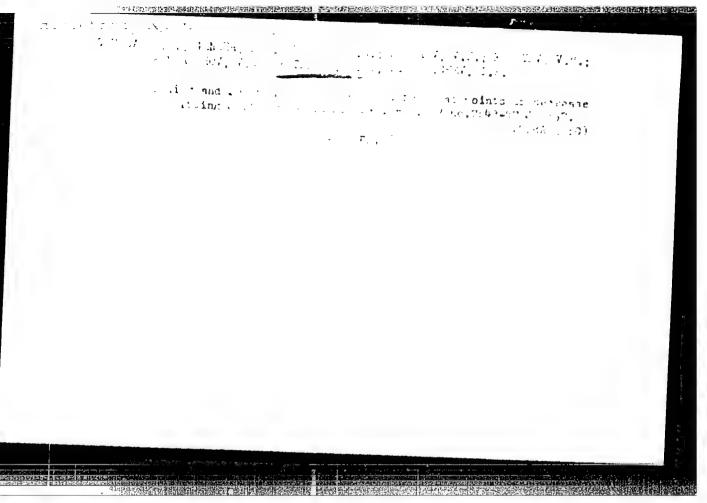
a high class, of 3.5 for first class and of 3 for second class.

Card 2/2

KUTNAYA, G.V., instruktor; PAVLOVA, V.A., instruktor.

Importance of exercise therapy for children with rheumatic fever. Med. sestra 19 no. 10:35-37 0 160. (MIRA 13:10)

1. Kabinet lechebnoy fizkul'tury Instituta pediatrii AMN SSSR. (EXERCISE THERAPY) (RHEUMATIO FEVER)



GONZA, M.S.; GENZER, M.S.; DYMOVA, V.N.; SIDOROV, V.F.; FAIRTEV, V.N.
SKOMOROKHOV, V.N.; KUTHATEV, E.A.; KIRYUSHICHEV, I.I.

Remedying defects at points of decrease in flat-knit stockings. Leg.prom. 17 no.8:40-42 Ag '57.

(Hosiery)

(Hosiery)

(Hosiery)

SHCHIREMO, M.S., doktor tekhn.nauk, prof.; DOBROV, V.P., kind.tekhn.

nauk KUTHER, M.B., Inzh.; PENTSOV, V.P., inzh.

New intermediate rapidly rotating hopper for the distribution of blant furnace burden. Izv. vys. ucheb. zav.; chera. met.

no.7:177-183 J1 158. (Milka 11:10)

1. Dnepropetrovskiy metallurgicheskiy institut i Dnepropetrovskiy Gipromez. (Blast furnaces)

SOV/133-59-1-2/23

AUTHORS: Kutner, M.B. and Pruzhanskiy, D.I., Engineers

TITLE: An Analysis of Systems of Automation of Scale Cars

(Analiz sistem avtomatizatsii vagon-vesov)

PERIODICAL: Stal', 1959, Nr 1, pp 5 - 9 (USSR)

THE REAL OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF

In the Krivorozhskiy zavod (Krivoy Rog Works) efforts ABSTRACT: for the purpose of automating scale cars were in progress

even before the war. In the NTMK (Nizhniy Tagil Met. Carbine) such efforts have been in progress jointly with the UP1 (Urals Polytechnical Institute) from 1948 onwards, in the Dnepropetrovsk Gipromez jointly with the imeni Dzerzhinskogo Works from 1949 onwards, in the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) (KMK) from 1950 onwards. "Elektroprivod" jointly with "Azovstal'", the DO TPEP (Dnepropetrovsk Division of Tyazhpromelektroproyekt), the OF SKBIM (Odessa Branch of the Special Design Office for Experimental Machinery) jointly with the zavod im. Starostina (imeni Starostin Works) have worked on this problem since 1954-1955. The automation systems of KMK and UPI-NTMK have been in operation for some time. The authors deal with the subject matter under

the following chapter headings: the programme of loading Card1/2 the charge materials; features of loading charge materials;

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920005-7"

S07/133-59-1-2/23 An Analysis of Systems of Automation of Scale Cars

arrangement of the programming apparatus; command equipment and equipment for fixing the weight of the materials; sutometion of the transportation; comparative analysis of 5 automation systems, one of which is available in 2 variants (table, p 7). The TskB "Elektroprivod" system is considered to be the most complicated in respect of the quantity of equipment required but best as regards its technological potentialities. The most simple system in respect of equipment is the KLK system; the technological potentialities of this system are somewhat lower than those mentioned above. The most serious disadvantage of this system is the low accuracy of weighing and a complicated programming of collecting the burden. The other systems discussed are considered to be inferior. There is I table. P.D. Pesin, N.N. Podkantcr and N.S. Fill ASSOCIATION: Dnepropetrovskiy Gipromez (Dnepropetrovsk Gipromez)

Card 2/2

ROZENSHTRAKH, M.B., inzh.; KUTNER, M.B., inzh.

Largest blast furnace in the world. Met.i gornorud.prom. no.52 3-7 S-0 '62. (MIRA 1621)

1. Ukrainskiy institut po proyektirovaniyu metallurgicheskikh zavodov.

(Blast furnaces)

BRITVIN, I. A., inzh.; KUTNER, M. B., inzh.; PODKANTOR, N. N., inzh.; FIL¹, N. S., inzh.

Increasing the blast temperature of blast furnaces in plants of the Dnieper Economic Region. Met. i gornorud. prom. no.1: 11-12 Ja-F 163. (MIRA 16:4)

- Projection and the control of the

1. Ukrgipromez.

(Dnieper Economic Region_Blast furnaces)

KUTNER, M.B.; PODKANTOR, N.N.; GORODETSKIY, A.N.; ROBUSTOV, A.M., ARIST, L.M.

Mechanization of auxiliary sections in blast furnace practice. Met. i gornorud. prom. no. 2:18-19 Mr-Ap '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920005-7"

KUTNER, M.B.; FODKANTOR, N.N.

Mastering the capacity of blast furnaces with 2,000 M³ volume
in southern plants of the U.S.S.R. Met i gornorud. prom.
no.3:1-6 My-Je '64.

(MURA 17:10)

Lifvinence, v.i.; Kuthea, M.B.; lockenton, M.E.; route for, m.r. of, L.F.

Single lip pouring of fig from and alag at blast furnaces.

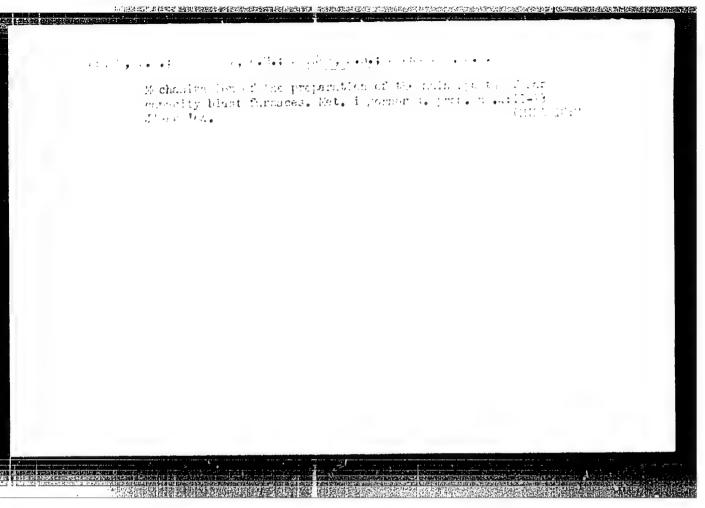
Met. i gernerud. prom. no.1:58-59 Ja-F '65. (MIEA 18:3)

MUTNER, M.B.; PODKANTOR, N.N.

Design of coolers and restatance of the shaft brickwork in modern blast furnaces. Met. 1 gornorud. prom. no.2:14.-16

Mr-Ap '65.

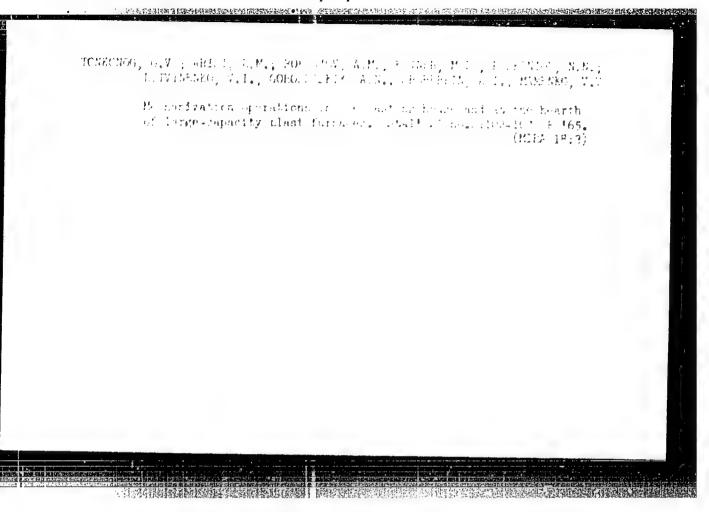
(MIRA 18:5)

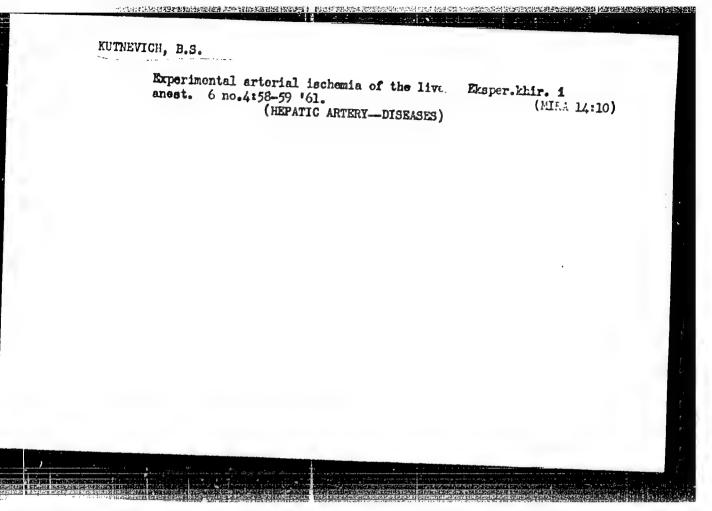


EUTHER, M.B.; PODKANTOR, N.N.; TKACHENKO, A.D.

Durability of the carbon hearth lining of large blast furnaces.

Met. 1 gornorud. prom. no.3:7-10 My-Je 165. (MIRA 18:11)





(MIRA 14:5)

KUTNEVICH, B.S. (L'vov, ul. Lenina, 43, kv.2) Arterial structure of a rabbit's liver following ligation of the hepatic artery under various conditions. Arkh. anat. gist. i embr. 40 no.3:47-53 Mr '61.

Commenter Restantishers pressession

1. Kafedra normal'noy anatomii (zav. - prof. A.P.Lyubomudrov) L'vovskogo meditainskogo instituta.
(HEPATIC ARTERY_SURGERY)

(LIVER_BLOOD SUPPLY)

。 中国社会会学工程、中国的特别。但是是自己的是是的**自己的对象的理解。他们是否的现象**

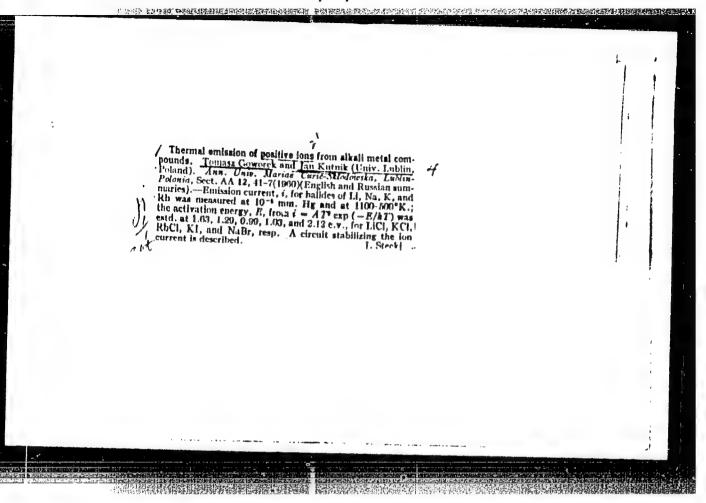
SEVER'YANOV, Mikolay Mikolayevich, kand.tekhn.nauk. Prinimali uchastiye:

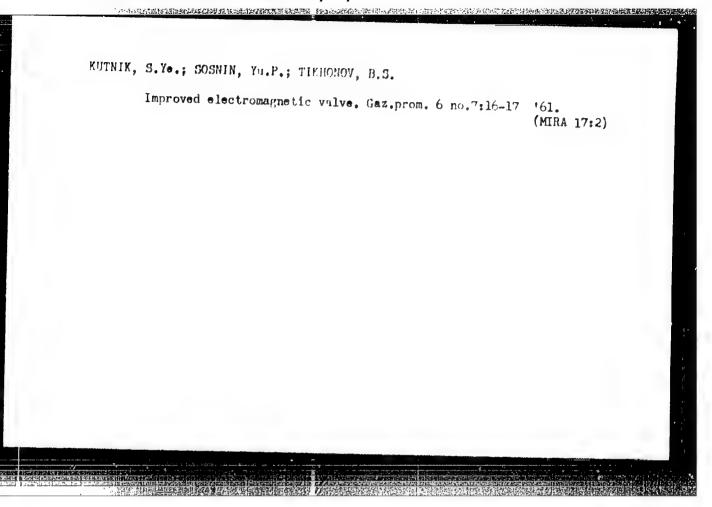
KUTHEVICH, M.A., inzh.; MOCHALOVSKIY, M.G., inzh.. POLYAKOV,

N.K., nauchnyy red.; DOLMATOV, P.S., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Transportation in the fuel industry] Transport toplivnykh predpriiatii. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1959. 623 p.

(Railroads, Industrial) (Transportation, Automotive)
(Fuel--Transportation)





KUTHIEVA, V.P. (Mondre); SARMENOV, I. Ye. (Mondre)

Frequencies of natural vibration of the basic tom of orthotropic shallow conic cholls. Izv. AN CSSR. Otd.tekh.nauk.Mgkl. i mehinostr. no.4:183-126 Jl-Ag '61. (MRA 14:8)

(Elastic plates and shells—Vibration)

Eutniy, R.D. AUTHOR: . 1-13 51.6 1/4 TITLE: Selecting the Voltage and lower Supply System for the it is ing of Drilling Installations (Wyber napryacheritys I skhed pitaniya osveshcheniya burovoy ustanovka; PERIODICAL: Energeticheskiy byulleten: 1998, Nr 8, H 7 10 (Co.). ABSTRACT: The various voltages and power systems possible are distinct sed. The proposed system uses a voltage of 120 v from a 6/0.23 kv transformer with its secondary winding lelta-con nected. This makes it possible to supply the jower and lighting loads from a common transformer, to have an insoated neutral line (to guard against electric shocks) and to use ordinary commercial lights and lamps up to 300 w device is fitted for checking any drop in the insulation Card 1/2 resistance and can be get to operate warning lamps. The

Selecting the Voltage and Power Supply System for the Lighting of Brilling Installations

lighting load is fed in three separate groups instead of all in one, as at present. Thus, if one group instead of all there will still be light in the stner (we have is a wiring diagram and I Soviet reference.

1. Power supplies 2. Fighting costers Power ogg

Card 2/2

KUTHIY, YED

\UTHOR:

Movsesov, N.S.

3.60周的中的世界的1860年8月18日日本中国共和国共和国国际的

. 7-90-53 8-4/9

中的主义(中国人的主义)。 中国国际协会企业 医维斯里斯阿根据伊斯特斯特里斯

TITLE:

On E.D. Kutniy's Article "Selecting the Voltage and Power Supply System for the Lighting of Brilling Installations (Po povodu stat yi E.D. Kutnego "Vybor naprvazheniya i skhor

pitaniya osveshcheniya burovcy ustanovki')

PERICDICAL:

Energeticheskiy byulletan', 1959, Nr 8, pp 10 - 11 (UUSA)

ABSTRACT:

The author agrees with Kutniy on many points and particularly on the economic and technical waste involved in a conversion to a 36 v system. He disagrees, however, with Kutniy's proposal to use 220 v for both lighting and power needs instead of the 380 v power supply currently adopted. Comparing the number of electric motors operating off 220 v and 380 v in the average drilling installation, he shows that the adoption of 220 v would necessitate a cable with cross-section 10-16 mm, whereas with the 380 v system the cross-section is only 4-6 mm. The majority of drilling sites already divide their lighting load into 3 or more circuits for the purpose of power supply. The author supports the pre-

Card 1/2

On E.D. Kutniy's Article "Selecting the Voltage and lower Supply System for the Lighting of Drilling Installations

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sent system of 220 v for lighting and 380 v for power needs supplied from a common transformer yielding 5507/20 v at the low-voltage side. There is I table

1. Power supplies 2. Lighting by tem - Power - applied

Card 2/2

Czechoslovak standard 73 (101 and the transition curve to circular arc. p.12. (Silnice, Vol. 6, No. 2, Feb. 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) LC. Vol. (, No. 9, Sept. 1917. Uncl.

""一种,我们是是我的人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是这

KUTNOHORSKY, ALEXANDR.

TECHNOLOGY

KUTNOHORSKY, ALEXANDR * Vytycovaci tabulky pro klotoidicke prechodnicove oblouky Praha, Statni nakl. technicke literatury, 1958 163 p.

Monthly List of East European Accessions (EEAI) LC VOL. 8, No. 2

May 1959. Unclass

AKHRIYANOVA, A.; GUSEVA, V.; KUTHOVA, R.

Factory conference for the survey of articles of the "Khimicheskir volokna." Khim.volok. no.5:79 '61. (HIRA 14:10) (Textile fibers, Synthetic-Periodicals)

· 公司,不是在政治的主义,但是一个人的主义,不是一个人的主义,不是一个人的主义,不是一个人的主义,不是一个人的主义,不是一个人的主义,但是一个人的主义,但是一个人的主义,

KUTNOVSKIY, S.I., dotsent

Formation of a leg stump from a free bone transplant with the spongiosa. Ortop. travm. i protez. 21 no. 9:24-26 S '60.

(MIRA 13:12)

1. Iz Novosibirskogo instituta travmatologii i ortopedii (dir. - D.P. Metelkin).

(AMPUTATION STUMPS) (BONE GRAFTING)

3/137/62/000/001/068/237 A060/A101

AUTHORS:

Radomysel*skiy, I. D., Kutnyak, V. A., Andreyeva, N. V.

TITLE:

Automatic gas combination furnace for sintering of metallo-cermic

articles and conversion of natural gas

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 42, abstract 16324

("Poroshk. metallurgiya", 1961, no. 3, 91-99, English summary)

The authors describe the design of a furnace for sintering of metaloceramic articles in an environment of gas under conversion. The furnace is TEXT: heated by natural gas, burned in flameless burners, and is designed for the use of carbofraxine muffles. The furnace is equipped with a device for obtaining converted natural gas from a steam-gas mixture CH_h - H_20 (1:1). The furnace productivity is up to 15 kg/h, working temperature - up to 1,200°C. The furnace operation is automated, the trays with the parts are fed into the furnace by means of hydraulic pushers. The blowing through of the loading and the unloading chambers by neutral gases is provided for. The sintering furnace has two zones of temperature regulation. R. Andriyevskiy

[Abstracter's note: Complete translation] Card 1/1

BERDICARVEKAYA, I.I.; KAMEMICHEY, I.S.; Hainfah, V.A.; HALAVARDECK, A.M.

Introducing induction harlening of chall-diameter holes by meane of "extferrites." Blul.tckh.--skom.inform.Geo.nauch.-isol.trat. nauch.i takh.inform. 18 no.4:25-26 Ap 165.

(MIRA 18:6)

ADAM, Milan; Milechi, Jiri; Kutoca, Marta; Patzika, Karel

Glycoproteins in chronic evolutive polyarthritis. Cas. lek. cesk.
97 no.15-16:467-470 18 Apr 58.

1. Vyzkumny ustav chorob reveatickych v Praze, reditel: prof: Frant.
Lencch Ustav organisace zdravotnictvi fakulty vseobecneho lekarstvi
Karlovy university v Praze, predmosta prof. Vaclav Prosek.

(ARTHRITIS, HERUMATOID, blood in

(Sucoproteins (Cz))

(BLOOD PROTEINS, in various dis.

(Superoteins in rheum, arthritis (Cz))

KUTOLIN, S.A.

Gertain property of the linear transformation used for calculating isobaric potentials and heats of formation of various alkali metal compounds. Thur. fiz. khim. 32 no.5:1269-1271 My '64.

1. Submitted Nov. 22, 1962.

ACCESSION NR: AP4046449

5/0076/64/009/010/2359/2361

AUTHOR: Kutolin, S. A.; Druz', N. A.; Vulikh, A. I.

B

ITLE: Second stable modification of lithium metazirconate

SOURCE: Zhurnal neorganicheskiy khimii, v. 9, no. 10, 1964, 2359-2361

TOPIC TAGS: lithium metazirconate, stable modification, x ray analysis

ABSTRACT: The existence of a second stable modification of lithium metazirco-nate in the Li₂O-ZrO₂ system was established. Heating of 2 HOH + ZrO₂ in a multic furnace for 4 hours at 950C gave a product Li₂ZrO₃ (II) which differed from that Li₂ZrO₃(I) synthesized by A. A. Grizik and V. Ye. Plyushchev (Zh. reorg. khimii, 6, 2249 (1961)) from Li₂CO₃ + ZrO₂ by heating at 1100C for 1-2 hours. Differences in the two modifications were established from x-ray data. No mutual transitions of the two modifications were noted. Differences in their physical properties were established; fusion temperatures--Li₂ZrO₃I, 1600 ± 50C and Li₂ZrO₃II, 1530 ± 50C; densities--4.125 and 3.508, respectively. The

Cord 1/2

"APPROVED FOR RELEASE: 03/13/2001

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ACCESSION NR: AP4046449

refractive index of both materials was above 1.78. An examination of the hydrolysis kinetics showed Li₂ZrO₃II hydrolyzed much more readily than Li₂ZrO₃I. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: None.

SUBMITTED: 02Jul63

ENCL: 00

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L 23L85-65 EWT(m)/EWP(t)/EWP(b) LJP(c) JD/JG ACCESSION NR: AP5002192 S/0080/64/037/G12/2748/2748

AUTHOR: Kutolin, S, A,; Vulikh, A, I,

TITLE: Synthesis of alkali metal metalitanates under vacuum

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 12, 1864, 2748

TOPIC TAGS: alkali metal metatitanate, synthesis, livium metatitanate, potassium metatitanate

ABSTRACT: A method was worked out for the synthesis of alkali metal titanates by sintering their hydroxides with TiO_2 under vacuum. TiO_2 , "special grade", was well mixed with a stoichiometric amount ($Me_2O:TiO_2=1$) of LiOH or KOH and placed in a vacuum furnace with a horizontal retort. The temperature was brought to 650 or 800C for the Li or K, respectively, and held for 1 hour at atmospheric pressure. The pressure was then reduced to 0.5-1 mm Hg and the temperatures were maintained for 2 more hours. The fusion temperature of the product Li_2TiO_3 was $1325\pm50C$ and of K_2TiO_3 , $820\pm10C$. Orig. art. has: no

Card 1/2

"APPROVED FOR RELEASE: 03/13/2001

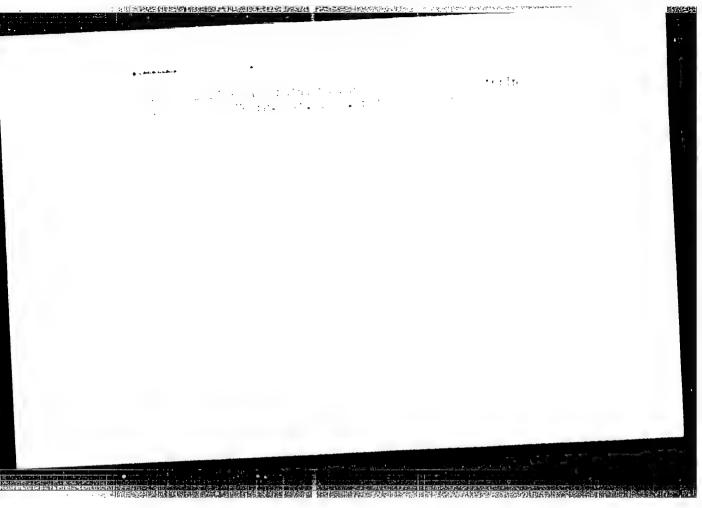
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ACCESSION NR: AP5002192

graphics
ASSOCIATION: None

SUBMITTED: 26Apr63 ENCL: 00 SUB CODE: GC

NR REF SOV: 003 OTHER: 006



"APPROVED FOR RELEASE: 03/13/2001

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53696-55 EAT(m)/EPE(n)-2/T/ENP(t)/ENP(b CULSSION RR: AP5011936)/E=A(c) Pu=4 IJP(c) JD/WW/J0 UR/0363/65/001/003/0388/0391 666.3:542.9 //0
TITLE: Effect of atmospheres of various gases	ou the the
properties of He2 Me 03 and He ne 03 177	materialy, v. 1, no. 3, 1965, 388-391
TOPIC TAGS: thermal synthesis, mixed oxide, hafnium, niobium, tantalum	mpounds He2 Ke V03 and Me He V03 (where
Me is an alkali metal; he is an alkali metal; he is an alkali metal; he is and in a vacing air and nitrogen atmospheres and in a vacing air and nitrogen atmosphere and in a vacing to a metal and in a vacing to	uum. Preparation of these types r and electrical ceramic industries. r and electrical ceramic industries with mixtures of alkali motal carbonates with
The title compounds were prepared in the tem oxides of the transition elements in the tem Fusing duration varied from 1 to 8 hours. Quantum Card 1/2	uantitative rossis
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ACCESSION NR: AP5011936 Mal We O3 were achieved by fusing carbonates of Li, K, and Cs with TiO2, ZrO2, HfO2, Nb2O5, and Ta2O5 in the stream of nitrogen and in a vacuum at 700° to 600°C and in the absence of mineralizers. Presence of air atmosphere has a deleterious effect on rate of formation of Me Me VO3 and Me Me VO3 due to chemisorption of O2, H2O, and CO2 by the solid reaction products. The optimum fusing duration is from 2 to 4 hours and the optimum reaction temperature is from 700° to 800°C in both nitrogen atmosphere and in a vacuum (1 mm Hg). Densities, malting points, and crystallographic structures of several title compounds were determined. Orig. art. has: 4 ASSOCIATION: none SUBMITTED: O4Jan65 ENCE: O0 SUB CODE: IC, CC NO REF SOV: 009 OTHER: 004	公司有 对社会和中国的政治域和医院等的的英国经验数据	RECORDERATE AND CONTRACT STATE	XX 中国的自己的证据中国的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的自己的	
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Ma He Vo3 were achieved by fusing carbonates of Li, K, and Cs with TiO2, ZrO2, HfO2, Mb2O5, and Ta2O5 in the stream of nitrogen and in a vacuum at 700° to 600°C and in the absence of mineralizers. Presence of air atmosphere has a deleterious effect on rate of formation of Me Me Vo3 and Me Me Vo3 due to chemisorption of O2, H2O, and CO2 by the solid reaction products. The optimum fusing duration is from 2 to 4 hours and the optimum reaction temperature is from 700° to 800°C in both nitrogen atmosphere and in a vacuum (1 mm Hg). Densities, malting points, and crystallographic structures of several title compounds were determined. Orig. art. has: 4 ASSOCIATION: none SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: IC, GC NO REF SOV: 009 OTHER: 004	L 53696-65			
the absence of mineralizers. Presence of air atmosphere has a deleterious effect on rate of formation of Me Ne O3 and Me Me O3 due to chemisorption of O2, H2O, and CO2 by the solid reaction products. The optimum fusing duration is from 2 to 4 hours and the optimum reaction temperature is from 700° to 800°C in both nitrogen atmosphere and in a vacuum (1 mm Hg). Densities, malting points, and crystallographic structures of several title compounds were determined. Orig. art. has: 4 tables and 1 figure. ASSOCIATION: none SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: IC, GC NO REF SOV: 009 OTHER: 004		The second secon	and the strong comments of the strong control of the strong contro	
the absence of mineralizers. Presence of air atmosphere has a deleterious effect on rate of formation of Me ^I Me ^{IV} O ₃ and Me ^{IMeV} O ₃ due to chemisorption of O ₂ , H ₂ O ₄ and CO ₂ by the solid reaction products. The optimum fusing duration is from 2 to 4 hours and the optimum reaction temperature is from 700° to 800°C in both mitregen atmosphere and in a vacuum (1 mm Hg). Densities, malting points, and crystallographic structures of several title compounds were determined. Orig. art. has: 4 tables and 1 figure. ASSOCIATION: none SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: IC, GC	142 He 03 were achieved by fu	sing carbonates of Li.	K, and Cs with TiOs. Zr	Da. HFOa.
on rate of formation of Me ¹ Me ¹ O ₃ and Me ¹ Me ¹ O ₃ due to chemisorption of O ₂ , H ₂ O ₄ and CO ₂ by the solid reaction products. The optimum fusing duration is from 2 to 4 hours and the optimum reaction temperature is from 700° to 800°C in both mitrogen atmosphere and in a vacuum (1 mm Hg). Densities, malting points, and crystallographic structures of several title compounds were determined. Orig. art. has: 4 tables and 1 figure. ASSOCIATION: none SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: IC, GC				
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SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: IC, GC 10 REF SOV: 009 OTHER: 004	tables and 1 figure.	compounted wells	determined. Orig. art.	nas: 4
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L 60929-65

ACCESSION NR: APSO18927

UR/0363/65/001/006/0928/0930 19

543.422.4

AUTHOR: Kutolin, S. A.

TITLE: Infrared absorption spectra of the compounds Li sub 2 TiO sub 3, Li sub

2 Zr O sub 3, and Lf. sub 2 HfO sub 3

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 6, 1965,

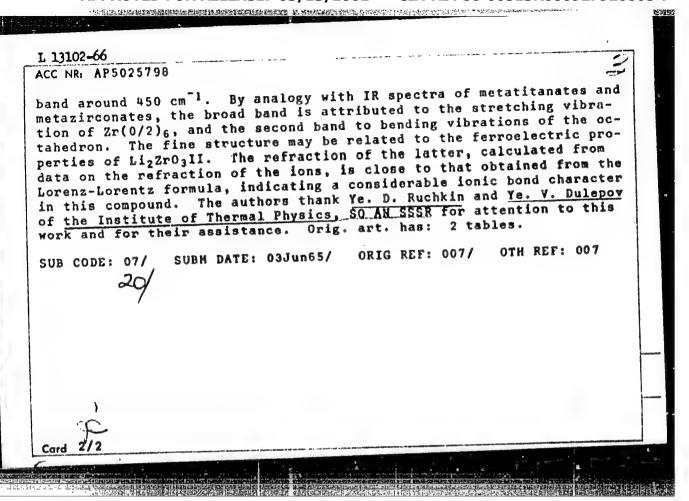
928-930

TOPIC TAGS: lithium titanate? lithium zirconate, lithium hafnate, infrared absorption spectrum, ferroelectric material 27

ABSTRACT: The infrared spectra were obtained with a UR-10 double-beam spectrometer. A comparison of the spectra of Li2MO3 (where H = Ti, Zr, and Hf) with those of compounds of the type Ba(Pb)MO3, which are ferroelectric materials, suggests that Li2MO3 may also have ferroelectric properties. As in compounds of the type Ba(Fb)MO3, in Li2MO3 two optical frequencies are observed which are related to the stretching and bending vibrations of the M(O|2)6 octahedron. As in the case of ferroelectric materials, the valence band of Li2MO3 is considerably broadened and has a fine structure. A comparison with the evidence already and

ACCESSION NR: AP5018927 reported in the literature is m. A. I. Vulikh, and Ye. D. Ruchki	ade. "The author is a for interest shown	grateful to S. S. Batsa	nov,
ASSOCIATION: none		THE WOLK.	A.
SUEHITTED: 25Feb65	ENCL: 00	SUB CODE: IC, OP	
NO REF SOV: 008	OTHER: 006		
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L 13102-66 EWT(n)/EPP(n)-2/EWP(t)/EWP(b)ACC NR: AP5025798 LJP(c) JD/WW/JO SOURCE COPE: UR/0363/65/001/009/1590/159 AUTHOR: Kutolin, S. A.; Druz!, R. ORG: none TITLE: Relationship between the structure and properties of lithium metazirconate and the conditions of its synthesis SOURCE: AN SSSR. Izvestiya. Neorganicheskiyo materialy, v. 1, no. 9, TOPIC TAGS: lithium compound, zirconate, IR spectroscopy ABSTRACT: The two stable modifications of lithium metazirconate, Li₂ZrO₃I and Li₂ZrO₃II, are compared. The x ray pattern of Li₂ZrO₃ was indexed in the parameters a = 5.39 kX, c = 29.85 kX; it is shown that some of the lines are not indexed in this lattice, and hence that the lattice of Li2ZrO3I is pseudotetragonal. Li2ZrO3II was indexed in the tetragonal system with lattice parameters a = 8.98 kX and c = 3.42 kX. Analysis of the x ray data for both modifications leads to the conclu-Analysis of the x-ray data for both modifications reads to the conclusion that Li₂ZrO₃II is indeed a new modification of Li₂ZrO₃. An IR spectroscopic study of Li₂ZrO₃ in the 400-5000 cm⁻¹ range revealed a broad band around 1000 cm⁻¹ having a fine structure, and an absorption Card 1/2 UDC: 546.34'831.4



14

L 34503-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG ACCESSION NR: AP5002802 S/0078/65/010/001/0140/0144

AUTHOR: Kutolin, S. A.; Vulikh, A. I.

TITLE: Synthesis of alkali metal metatitanates in vacuum

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 140-144

TOPIC TAGS: alkali metal metalitanate, synthesis, structure, density, fusion temperature, hydrolysis

ABSTRACT: The reaction of LiOH, KOH and Li₂CO₃ with TiO₂ at atmospheric pressure and under 1 mm H_S vacuum at 650-950 C for 2-4 hours to synthesize the alkali metal metalitanates was investigated. Li₂TiO₃ and K₂TiO₃ were produced quantitatively by low temperature (650 and 800C, respectively) reaction under vacuum. Higher temperatures resulted in colored products and corrosion of the corundum and porcelain crucibles. There was no reaction between the carbonate and TiO₂ in air: under vacuum the reaction was essentially the same as with the hydroxide. X-rays showed the structure of the Li₂TiO₃ was ordered. The densi-

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ACCESSION NR: AP5002802

ty and the fusion temperatures of Li₂TiO₃ and K₂TiO₃ were determined. Both compounds were stable to 800C. Both hydrolyzed in water, the K₂TiO₃ decomposing somewhat more readily than Li₂TiO₃. Orig. art. has: 2 tables and 1 figure.

ASSOCIATION: None

SUBMITTED: 24Jul63

ENCL: 00

SUB CODE: GC, IC

NR REF SOV: 005

OTHER: 016

KUTOLIN, S.A.

Additive chart for the calculation of the standard heats of formation of the silicate class minerals. Izv. SO AN SSSR no.7 Ser. khim. nauk no.2:141-143 165.

(MIRA 18:12)

1. Institut neorganisheskoy khimii Sibirskogo otdeleniya AN SOSR, Novosibirsk. Submitted May 26, 1964.

L 13030-66 FAT(m)/EPF(n)-2/FAP(t)/EAP(b) ACC NR: AF5028584 SQUECE COD IJP(c) JD/WW/JW/JG SOURCE CODE: UR/0076/65/039/011/2763/276 AUTHOR: Kutolin, S. A.; Sergeyeva, A. Ye. ORG: none TITLE: Thermodynamic study of synthesis of Me2TiO3 and Me2ZrO3 type compounds Zhurnal fizicheskoy khimii, v. 39, no. 11, 1965, 2763-2765 SOURCE: TOPIC TAGS: titanate, zorconate, thermodynamic analysis, alkali metal, conforate, inorganic synthesis ABSTRACT: Thermodynamic analyses were conducted for the reactions of alkali metal carbonates with TiO2 and ZrO2 for the production of Me2 TiO3 and Me2ZrO3 type compounds $Me_2CO_3 + TiO_2 \rightarrow Me_2TiO_2 + CO_2$ $Me_2CO_3 + ZrO_2 \rightarrow Me_2ZrO_3 + CO_2$ MosTiOs - MosO + TiOs. $Me_2ZrO_3 \rightarrow Me_2O + ZrO_{3_1}$ UDC: 541.11 1/2 Card

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he data show the conates is possil anate. The analamically possible nto respective of	lysis show the leto have K2: exides at ~140	at in the ErO3;but to	ne exception K ₂ 0-Zr0 ₂ sys he latter co: g. art. has:	of cesiu tem it is mpound de l table	m metati- thermody- composes
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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927920005-7

WILLIAM TO VERNA / EXP(t)/S ACC NR. APG020557 SOURCE CODE: UR/0414/G6/000/001/0100/0104 AUTHOR: Batsanov, S. S. (Novosibirsk); Deribas, A. A. (Novosibirsk); Kutolin, S. A (Novosibirsk); Kostyreva, I. V. (Novosibirsk) ORG: none TITLE: Effect of an explosion on a substance. Dynamic compression of sodium nitrate SOURCE: Fizika goreniya i vzryva, no. 1, 1966, 100-104 TOPIC TAGS: sodium nitrate, compression shock wave, compressive stress, spectrophotometric analysis ABSTRACT: The properties of polycrystalline sodium nitrate subjected to dynamic compression were investigated. Dynamic compression of NaNO3 was accomplished by exploding 70-150 g of trimethylene trinitramine in the presence of 1.40 g of the investigated substance in a standard ampule, 5 mm in diameter and 40 mm long. After detonation and opening of the arapules the appearance of a red-brown color along the axis of the ampules was noted in all cases. A special analysis of this portion of the specimen showed the presence of up to 1% iron, consequently the red color of the crystals can be due to admixtures of iron compounds. The optical density of the specimens of sodium nitrate subjected to dynamic compression was mea-Card 1/2 UDC: 662.215.2

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ACC NR. AP6020557

sured on a spectrophotometer. The specimens were pressed into tablets (4 mg of the investigated substance per 200 mg of KBr). The red-brown color of the substance from the bottom and middle of the ampules corresponded to the gentle slope of the optical density curve in the $400-600~m_{\rm H}$ region. No peaks characteristic for iron oxide were noted on the curve. For compressed sodium nitrate from any part of the ampule, a fine structure of the optical density spectrum in the 320-400 mu region in the form of more than 20 peaks was characteristic. The presence of the fine structure can be explained by the development of defects in the sodium nitrate after dynamic compression. Heating of the compressed sodium nitrate at 225C for 2 hr did not change the optical density spectrum. A chemical analysis of the red-brown phase for the content of sodium and nitrogen revealed a satisfactory agreement between determinations. Sodium was determined by the flame photometry method and nitrogen by Reich's and Kjeldahl's methods with preliminary reduction of the nitrate to ammonia. The deviation of the results of the analysis from stoichiometry were within 1-2%, i.e., at the level of defects. A physical examination of the nature of the defects was not carried out, but it was assumed that the defects in the compressed sodium nitrate were formed as a result of the transfer of a charge from the nitrate ion to the sodium ion. It is concluded that as a result of the dynamic compression of NaNO3 defects, electroneutral atoms, or groups of atoms of sodium occur. The hypothesis of the transport of a charge to the sodium ion is attested to by the increase of the dielectric constant: in a specimen with a density of 2.05 the dielectric constant is 8.1 as opposed to 7.1 for the original NaNO3. The investigation of defects in NaNO3 subject to compression will be continued. Orig. art. has: 3 tables and 3 figures.

Cord 2/2138UB CODE: 19,20/SUBM DATE: 28Sep65/ORIG REF: 005/OTH REF: 001

ACC HR. AP6032947

SOURCE CODE: UR/0363/66/002/010/1803/1810

AUTHOR: Kutolin, S. A.; Vulikh, A. I.; Druz', N. A.; Shammasova, A. Ye. ORG: none

TITLE: Dependence of the structure and properties of the A2BO3 and ABO4 compounds on the composition of the general attractors to the manual transfer of the general attractors and the general attractors and the general attractors are attractors and the general attractors and the general attractors are attractors and the general attractors and the general attractors are attractors and the general attractors and the general attractors are attractors and the general attractors and the general attractors are attractors and the general attractors and the general attractors are attractors and the general attractors are attractors and the general attractors and the general attractors are attractors at the general attractors are attractors at the general attractors and the general attractors are attractors at the general attractors

ABO; compounds on the composition of the gaseous atmosphere in thermal synthesis

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 10, 1966, 1803-1810

TOPIC TAGS: ferroelectric material, antiferroelectric material, dielectric constant, physical chemistry property, refractive index ABSTAACT:

in a recently published article, the authors [association un-known] analyzed the data from Western and Soviet literature, including their own experimental data which were published in 1964-66, on the thermal synthesis, structure, and properties of A₂BO₃ and ABO₃ compounds, where A is an alkali metal and B is Ti, Zr, Mn, Nb, or Ta.

In previous publications, the authors established the effect of the gaseous medium in which the compounds were synthesized on their structure and particle size. Now, they have made a detailed analysis of the earlier data to correlate the conditions of synthesis,

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primarily the gaseous medium, with the physicochemical properties of the compounds. In the authors' opinion, this analysis is of practical importance for the synthesis and application of these compounds. The properties studied were: density, index of refraction, dielectric constant, intensity of IR absorption bands, and catalytic activity. The experimental data were obtained with samples sintered at a relatively low temperature from a solid mixture of an alkali carbonate and an acidic oxide, in vacuum or in a nitrogen stream.

The nature of the gaseous medium was shown to affect only the structure of alkali metatitanates and manganites (A₂BO₃), and not their physicochemical properties, such as density, index of refraction, or dielectric constant. Density was the only property of the manganites which was actually measured; the index of refraction and dielectric constant of the manganites exceeded the measurable values. An exception was the crystal symmetry of K₂TiO₃ and RbTiO₃ which apparently remained unaffected by the gaseous medium in which their synthesis was accomplished. However, the existence in these two compounds of second order phase transitions, undetected by x-rays, may not be excluded. In all alkali metatitanates the intensity of the IR absorption bands due to deformation vibrations of

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the [TiO₆] octahedra was found to be independent of the method of synthesis. Their catalytic activity was affected by the gaseous medium, as shown, for example, by the comparative data on specific surface, preexponential factor, and activation energy for a maximum decomposition of hydrogen peroxide on a Li₂TiO₃ catalyst prepared in the air or in vacuum.

In the group of Λ_2BO_3 and Λ_2BO_3 compounds, where B is Zr, Nb, or Ta, i.e., alkali metazirconates, metaniobates, and metatantalates, only NaTaO₃ behaved like the alkali metatinates and manganites versus the gaseous atmosphere in the synthesis. The gaseous atmosphere changes the crystal structure, i.e., symmetry type and lattice constants of NaTaO₃, but does not affect its picnometric density or intensity of deformation vibrational bands in their IR transmission spectra. Other compounds of this group -- Li₂ZrO₃, NaNbO₃, KNbO₃, CsNbO₃, and CsTaO₃ -- change their crystal structure, i.e., symmetry type and/or lattice constant, in different gaseous media simultaneously with certain physicochemical properties, e.g., picnometric density, dielectric constant, intensity of deformation vibrational bands in the IR absorption spectra, and catalytic activity versus H₂O₂ decomposition.

Card 3/5

ACC NR. AF6032947

The crystal structure of LiNbO₃, LiTaO₃, and KTaO₃, was not affected by the difference in gaseous atmosphere in the synthesis, but picrometric density, index of refraction, and intensity of deformation vibrational bands of the IR spectra were substantially changed.

These diverse and strong effects of the gaseous medium on the structure and properties of A_2BO_3 and ABO_3 compounds were explained as the result of deformability of their structure, specifically of the rendency toward distortion of the $[TiO_6]$, $[NbO_6]$, and $[TaO_6]$ octahedra. This deformability was correlated with a significant ionic polarizability of the alkali metatitanates, metaniobates, and metatantalates. This correlation which was experimentally established for the above-indicated compounds (presumably) may be extended to other compounds with significant ionic polarizability and may form the base for predicting the possibility of a beneficial effect of a given gaseous medium on the completeness of synthesis of a given compound. In addition, a significant ionic polarizability of a given compound may be an indication of a potential ferroelectric or antiferroelectric property.

An additional indication of the possible ferroelectric or antiferroelectric property of alkali metatitanates was seen in the ob-

ACC NR: A16032947

served analogy in the structure of their IR absorption bands which are linked to the stretching vibrations of the [TiO₆] octahedra and in the structure of the corresponding bands of the [NbO₆] and [TaO₆] octahedra in the IR abosrption spectra of the alkali metaniobates and metatantalates. The observed spectral structure is characteristic of ferroelectric materials. The authors concluded that confirmation of the effect of a gaseous medium on solid-phase synthesis of a given compound is a prerequisite for studying the ferroelectric property in this compound. Orig. art. has: 1 figure and 8 tables.

SUB CODE: 11,07,20 / SUBM DATE: 14Jul65 / ORIG REF: 022 / OTH REF: 016

Card 5/5

ACC NR: AP7004724 (A) SOURCE CODE: UR/0413/67/000/001/0012/0012

INVENTOR: Kutolin, S. A.; Bulikh, A. I.; Sereyeva, A. Ye.

ORG: None

TITLE: A method for producing gallium nitride. Class 12, No. 189811

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 12

TOPIC TAGS: gallium compound, nitride, chloride, silver chloride

ABSTRACT: This Author's Certificate introduces a method for producing gallium nitride by interacting metallic gallium with ammonia in the presence of heat. The yield of the product is increased and its quality is improved by mixing the initial gallium with ammonium chloride and carrying out the process in the presence of a metal chloride which is capable of reduction by hydrogen under the conditions of synthesis, e. g. copper or silver chloride, preferably with the ammonia under a pressure of 6 atm at a temperature of 700°C.

SUB CODE: 11, 07/ SUBM DATE: 02Mar64

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AUTHOR: Batsanov, S. S. (Novosibirsk); Deribas, A. A. (Novosibirsk); Kutolin, S. A. (Novosibirsk)
ORG: none 8.4
TITLE: The action of explosion on matter. Thermodynamics of shock compression of
SOURCE: Nauchno-tekhnicheskiye problemy goreniya i vzryva, no. 2, 1965, 52-61
TOPIC TAGS: shock wave, crystallization, carbonate, shock compression, solid state physics
ABSTRACT: 5 In previous studies, the author pointed to the possibility that superhigh pressures generated by shock waves can be used to crystallize amorphous substances or to change the atomic or electron structure of matter. In the present study, the ther-
modynamic parameters in the shock compression of a steel cylinder affected by the detonation of a hexogen charge were calculated and a relationship relating the kinetic energy of a steel cylinder with the size of the charge was solved by electronic com-
der does not increase further when weight of the charge exceeds 170 g. This finding
is in agreement with previous experiments which indicated that the crystallinity of neodymium oxide did not increase further when the weight of the charge was increased Cord 1/2
UDC: 532.593
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KUTOLIN, V.A.

Intrusion of dolerites in the Novosibirsk region. Geol.i
geofiz. 4:76.81 '62. (HIRA 15:8)

1. Novosibirskaya geologopoiskovaya ekspeditsiya.
(Novosibirsk region-Dolerites)

KUTOLIN, V.A.

Petrochemical study of the process of differentiation of banaltic magma in bedded bodies. Geol. i geofiz. no.6:39-51 (62. (MIRA 15:7)

1. Institut geologii i geofiziki Sibirskogo etdeleniya A. SSSR, Novosibirsk. (Papalt) (Dolerites)

KUTOLIN, V A.; KUZNETSOV, Th.A., atv. rad; KOHOLEVSKAYA, B.N., rad.; CVCHINNIKOVA, T.K., tekhn rad.

[Trap rock formation in the Kuznetsk Basin] Trappovaia formatsiia Kuzbassa. Otv. rad. IU.A.Kuznetsov. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1963. 116 p.

(MIRA 16:11)

1. Chlen-korrespondent AN SSSR (for Kuznetsov).

(Kuznetsk Basin-Hocks, Igneous)

KUTOLIN, V.A.

Differentiation in the sills of the scutheastern part of the Kuznetsk Hasin. Geol.i geofiz. no.1:98-110 '63. (MFA 16:4)

1. Institut geologii i geofiziki Sibirakego otdeleniya AN SSSR, Novosibirsk. (Kuznetsk Lasine-Sills (Geology))

KUTOLIN, V.A.

Petrochemical characteristics of the acid derivatives of baselt magma in platform areas. Geol. i geofiz. no.2174-81 64. (MIRA 18:4)

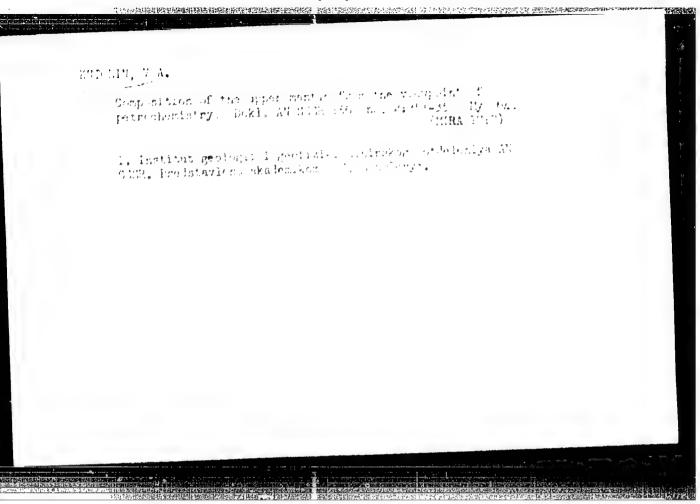
1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

GOL'DIN, S.V.; KUTOLIN, V.A.

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Petrochemistry of the traps of Katanga and Kuz'movke complexes in the western margin of the Siberian Platform. Sov. geol. 7 no.12: (MIRA 18:4)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.



BELOUSOV, A.F.; DOBRETSOV, N.A.; KOCHKIN, Yu.N.; KRIVENKO, A.E., EUTCLIN, V.A.; TELESHEV, A.Ye.; KHLESTOV, V.V.

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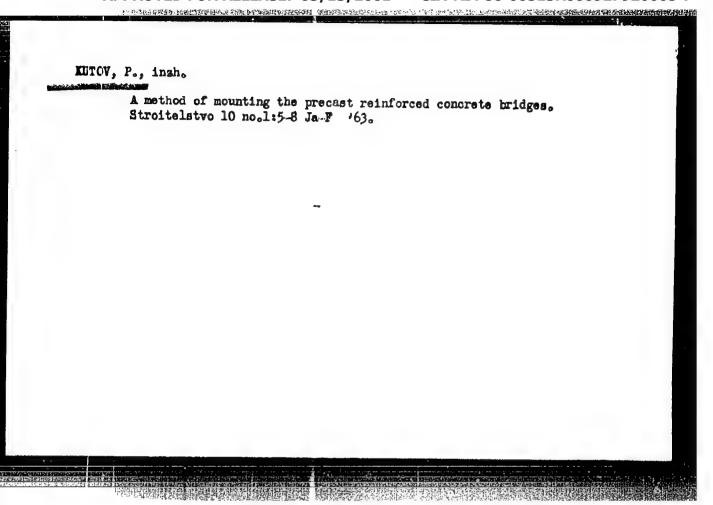
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至至4. 关于中国。因此还不是的原则的包含于1940年的智能的国家的特别智慧的思想的**是相关的证明的思想**

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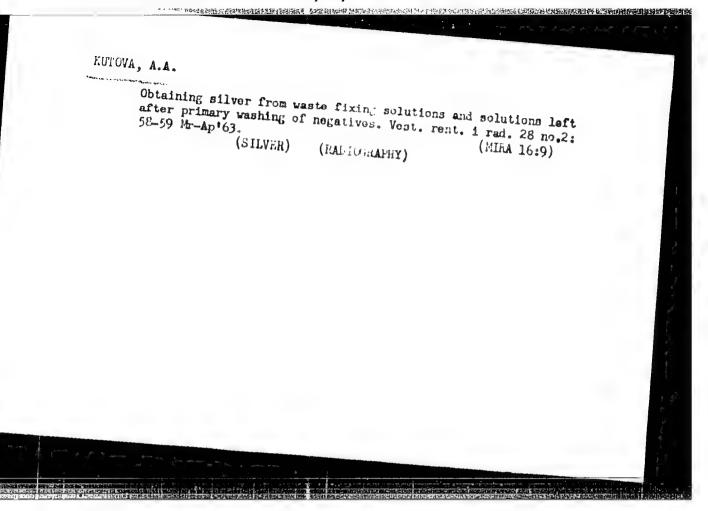
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